Application No.: 10/766,068

Filing Date: January, 28, 2004

### REMARKS

The specification has been amended by replace a recitation "reed" with "lead" as originally presented. Claims 21 and 22 have been canceled. Thus, no new matter has been added. Applicants respectfully request entry of the amendments and reconsideration of the present application in view of the amendments and the remarks set forth below.

### Specification

In the previous amendment, a recitation "lead switch" was replaced with "reed switch" to correct the clerical error. However, the amendment has been objected to under 35 U.S.C. 132(a), as being introducing new matter in to the disclosure. Applicants respectfully submit, for the record, that "reed switch" is the appropriate translation of the Japanese characters " $\mathcal{Y} = \mathcal{F} \times \mathcal{A}$   $\mathscr{P}$ " in question, as explained below.

The recitation "reed switch" is expressed in phonogram in the original Japanese specification, and as shown in copy of the Japanese-English dictionary attached as Appendix, "lead" and "reed" are commonly expressed in the same characters "IJ — N" since Japanese does not distinguish "r" sound and "I" sound. (Please see underlined portion) Further, search results of Wikipedia for "reed switch" and "lead switch" indicate that "lead switch" is not proper technical term.

In addition, a partial copy of the machine translation of JP 2004-251900A provided by Japanese Patent Office and the publication of its US counter part US 2004-183723A are also attaches as well as the bibliographic data and the INPADOC Patent Family List. In the paragraph [0055] of JP 2004-251900A, the Japanese characters " $\mathcal{Y} - \mathcal{F} \times \mathcal{F}$ " in question is seen and "reed switch" is used in the machine translation. (Please see underlined)

Thus, it appears that "reed switch" is an appropriate translation of the Japanese characters " $U - F \times V = V$ ".

Nevertheless, Applicants amend the recitation "reed switch" to "lead switch" as originally presented, in order to accelerate the examination. Applicant respectfully request withdrawal of the objection.

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Claim Rejections - 35 USC § 112 and 35 USC § 103

Claims 21 and 22 have been rejected under 35 USC § 112, first paragraph as failing to comply with the written description requirement, and rejected under 35 USC § 103 as being

unpatentable over Inamoto et al., in view of Cozzette et al and Neel et al.

In view of coverage of the rest of the claims, Claims 21 and 22 have been canceled.

Applicant respectfully request withdrawal of the rejections.

Allowable Subject Matter

Claims 1-11 and 14-20 have been allowed. The applicants acknowledge the allowance of

the claims with appreciation.

CONCLUSION

In the light of the applicant's amendments to the claims and the following Remarks, it is respectfully submitted that the present application is in condition for allowance. Should the

Examiner have any remaining concerns which might prevent the prompt allowance of the application, the Examiner is respectfully invited to contact the undersigned at the telephone

number appearing below.

No Disclaimers or Disavowals

Although the present communication may include alterations to the application or claims.

or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable over the cited references. Rather,

any alterations or characterizations are being made to facilitate expeditious prosecution of this

application. Applicant reserves the right to pursue at a later date any previously pending or other

broader or narrower claims that capture any subject matter supported by the present disclosure.

including subject matter found to be specifically disclaimed herein or by any prior prosecution.

Accordingly, reviewers of this or any parent, child or related prosecution history shall not

reasonably infer that Applicant has made any disclaimers or disayowals of any subject matter

supported by the present application.

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Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated:

August 3, 2009

Daniel E. Altman

Registration No. 34,115 Attorney of Record

Customer No. 20995 (949) 760-0404

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# APPENDIX

ウェブ | 登録サイト | 画像 | 音楽 | 動画 ニュース | ブログ | 辞書 | 知恵袋 | 地図 | 商品 で始まる TAPAN

○ 国語 ○ 類語 ○ 英和 ○ 和英 ④ すべての辞書

辞書検索結果

[PR] <婚活割引で無料体験> 30代からの『婚活』はYahoo!縁結びから ※20禁

図語辞書 類語辞書 英和辞書 和英辞書 すべての辞書

Wahool石科事典花株素線

■語辞書との一致(1~5件目 / 19件)

検索辞書:大辞泉 提供:JapanKnowledge

1. リード[Carol Reed] 型 [1906~1976]英国の映画監督。ドキュメンタリータッチの緊迫感あふれる作風で知られる。作「邪魔者は殺せ」 「第三の男」など。

2. リード[Herbert Read] 型

[1893~1968]英国の詩人・批評家。文芸批評・美術批評のほか、政治問題にも言及。詩集「戦いの終わ り」、評論「芸術の意味」「芸術と社会」など。

3. リード[lead] 型

「名「(スル)」うまくできるように相手を導くこと。また、先頭に立って集団を導くこと。「―のうまい捕手」「団員を― する」「流行を一する」「時代を一する」2 競技・競走などで、相手に差をつけて優位に立つ。 [さらに]

4 U-F[[FFD]®

《 low energy electron diffraction 》低エネルギー電子回折。固体表面研究の実験手段として使われる。

 U-F(read) 5 篩むこと。

#### 国語辞書結果を全件表示

大辞林の結果を見る

■ 和英辞書との一致(1~3件目 / 3件)

検索辞書:プログレッシブ和英中辞典 提供:JapanKnowledge

1. リード型 [木管楽器の]a reedリードオルガン | a reed organリード楽器 | a reed instrument

1〔先に立つこと〕the lead クラブをリードする lead [take the lead in] a club 女性をリードしてワルツを踊る lead a woman in a waltz2[優勢である... [さらに]

3. リードオンリーメモリー 9

[コンピュータで]read-only memory ((略ROM))

ニューセンチュリー和英辞典の結果を見る

Yahoo!百科事典との一致 (1~5件目 / 12件)

検索辞書:日本大百科全書 提供:小学館

# Reed switch and out more about navigating Wikipedia and finding information.

From Wikipedia, the free encyclopedia

The reed switch is an electrical switch operated by an applied magnetic field. It was invented at Bell Telephone Laboratories in 1936 by W. B. Ellwood. It consists of a pair of contacts on ferrous metal reeds in a hermetically sealed glass envelope. The contacts may be normally open, closing when a magnetic field is present; normally closed and opening when a magnetic field is applied; or one normally open and one normally closed. The switch may be actuated by a coil, making a reed relay<sup>[1]</sup>, or by bringing a magnet near to the switch. Once the magnet is pulled away from the switch, the reed switch will go back to its original position.

Reed switches are used in reed relays, which are used for temporarily storing information in mid-20th Century telephone exchanges. As well, they are for electrical circuit control, particularly in the communications field; as proximity switches for burglar alarms and as switches in



Reed relay and reed switches



Showing the contacts clearly

electronic pedal keyboards used by pipe organ players and in electronic children's toys which have

## Contents

- 1 Description
- 2 Uses
- 3 Reed relays
- . 4 Further reading
- 5 External articles and references

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## Description

The reed switch contains a pair (or more) of magnetizable and electrically conductive metal reeds which have end portions separated by a small gap when the switch is open. The reeds are hermetically sealed in opnosite ends of a tubular leass envelope.

A magnetic field (from an electromagnet or a permanent magnet) will cause the contacts to pull together, thus completing an electrical

circuit.<sup>[2]</sup> The stiffness of the reeds causes them to separate, and open the circuit, when the magnetic field ceases. Another configuration contains a non-ferrous normally-closed contact that opens when the ferrous normally-open contact closes. Good electrical contact is assured by plating a thin layer of precious metal over the flat contact portions of the reeds; low-resistivity silver is more suitable than corrosion-resistant gold in the sealed envelope. There are also versions of reed switches with mercury

# Search results with the search results

From Wikipedia, the free encyclopedia Did you mean: Load switch

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Lead switch

MediaWiki search Search

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- Clara Ward
  - A gifted singer and arranger, Ward took the lead-switching style used by male gospel quartets to new heights, leaving room for spontaneous ... 16 KB (2486 words) - 10:00, 25 March 2009
- In electronics, a switch is an electrical component that can break an electrical ... between the common lead of the switch and a pole or poles. ...
- 34 KB (5143 words) 07:09, 10 May 2009
- Engl

### MEASUREMENT METHOD BY CHEMICAL SENSOR, AND CHEMICAL SENSOR TYPE MEASUREMENT DEVICE

Publication number: JP2004251900 (A)

Publication date: 2004-08-09 inventor(s):

SAITO SOICHI; ITO SHIGEFUMI

Applicant(s): TANITA SEISAKUSHO KK: NIPPON ELECTRIC CO

Classification:

- international: G01N27/418; C12M1/40; G01N27/327; G01N27/418; C12M1/40; G01N27/327; (IPC1-7); G01N27/416; C12M1/40; G01N27/327

Application number: JP20040023637 20040130

Priority number(s): JP20040023537 20040130; JP20030022070 20030130

#### Abstract of JP 2004261800 (A)

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### esp@cenet -- INPADOC Patent Family

Page 1 of 1

Family list 3 application(s) for JP2004251900 (A)

- Messmethode mit Hilfe eines chemischen Sensors und eines chemischen Sensormessgerätes

  aventen: SOICHI SAITO [JP]: NARUSHI ITO Applicate TANITA SEISAKUSHO KK [JP]: [JP] EC: G01N27/403; G01N33/48782 IPC: G01N27/26; G01N27/403; G01N27/49; (+8) Publication info: DE102004004392 (A1) - 2004-09-09

- Publication Info: JP2004251900 (A) -- 2004-09-09
- 3 Method for measuring by means of chemical sensor, and chemical sensor type measuring apparatus sensor SATO SOICHI [JP] : ITO NARUSHI Applicant SATO SOICHI, : ITO NARUSHI [JP]
  - EC: G01N27/403; G01N33/487B2 IPC: G01N27/26; G01N27/403; G01N27/49; (+6) Publicution info: US2004182723 (A1) - 2004-09-23

Date supplied from the esp@cerrer details --- Worldwide

JP 2004-251900 A 2004.9.9

(19) 日本国特許庁(JP)

(12)公開特許公報(A)

(11)特許出版公開書号 特開2004-251900 (P2004-251900)

(43) 公開日 平成16年9月9日(2004.9.9) (51) Int.Cl.<sup>7</sup> テーマコード (多考) GO 1 N 27/416 GOIN 27/46 336B 4B029 C12M 1/40 C12M 1/40 GO 1 N 27/327 GO1N 27/46 338 GOIN 27/46 336H GOIN 27/46 311K 審査請求 未請求 請求項の数 13 〇L (全 24 頁) 最終頁に続く (21) 出版番号 特康2004-23637 (P2004-23637) (71) 出職人 000133179 (22) 出顧日 平成16年1月30日 (2004.1.30) 株式会社タニタ (31) 優先權主張番号 特数2003-22070 (P2003-22070) 東京都板槽区前野町1丁目14番2号 (32) 優先日 平成15年1月30日 (2003.1,30) (71) 出版人 000004237 (33) 優先權主張图 日本面(JP) 日本電気株式会社 東京都港区芝五丁目7番1号 (74)代理人 100123788 弁理士 宮崎 昭夫 (74) 代理人 100088328 弁理士 金田 畅之 (74) 代理人 100106297 弁理士 伊藤 克博 (74) 代理人 100106138 弁理士 石橋 政幸 最終質に続く

(54) 【発明の名称】化学センサによる測定方法、ならびに化学センサ型測定装置

#### (57)【要約】

[課題] 化学センザを用いた割定において、教像状態 の化学センサを保存液とする経動液中に接負し、作用能 を参照後と同間に測定差位を行加して、化学センザを使 用附結する際、この初期段階で見出されるセンザ悪彼等 性の不安定さを連やかに解消して、センサ感度等性 定化を図る手段と微失する。

「複数字原」 化学センサを使用隔絶する際、軟塊状態の化学センサを保存後さする緩衝線中に浸填上、後、作っ 用板と参照態との欧川須定位と、原一方向の電化の ので、販売値位よりも大きな絶対値を示す第一の初期処理 値位を、第一の初期処理時間の間印加し、引き続き、別 定電位と同一の第二の初期処理を放と変更して、の 一の初期処理概定を関この初期処理制の間印加する二 設備の功期処理機を終了この初期処理制の間印加する二 設備の助剤処理機能を第二の初期処理所の間印加する二 気能の功期処理機能を終了ことで、センサ感度特性の安 定化が追放される。

【選択図】 図3



過した時点では、センサ感度は、本来の水準で安定化が図られていることが判明した。 【0052】

すなわち、作製後、乾燥状態で保管されている酵素電極型化学センサについて、使用期始する際、本発明にかかる房一の側を方法に従う、使用開始処理操作を行うことで、その特素電極型化学センサ来のセンサ態度への安定化を湿時間で達成できること財産総定れた。この使用開始処理操作を終えた後、センサ態度の安定化がなされ、一定開催、感度較正を行わなくとも、精度、再現性のよい測定を実施することが可能となる。

また、以上の結果を踏まえて、かかる酵素電極型化学センサ用の測定装置本体9に関して、上述する使用開始処理操作に対応する印加電位設定、保持時間の条件を、ソフト的に機能追加した。対応して、ハード的にも、上述する一連の使用制始処理操作が完了し、安定した測定が可能となった旨を表示する機構をも付加した。 [0 0 5 5]

例えば、上述する使用開始処理操作機能を付加した測定装置本体 9 では、 乾燥状態のセンサを測定器本体 9 に接続してから、

(i) センサが保存液に浸漉される位置に設置 (リードスイッチ等で検知) I

(ii) 電位を印加せずに 5 分間保持 → 有機額全体が十分に保存液で添れていない状態で電位を印加すると腹破壊を起こすため

(iii) 750mVで3時間保持

(iv) 450mVで1時間保持

(v) 450mVはそのままだが、据定総本体部のインジケータが「湖定可」となるイッカような、ソフト的な電位印面タイミング制御、ならびに、それに利用するリードスイッテ等で検知機構、別定器本体部のインジケータ部の追加など、ハード的な変更がなされる。

[0056]

(第2の実施形態)

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sensor sensitivity, it became clear that stebilization was attained with the original level at the latest. [0052]

The result of having evaluated dailyc change of the sensor sensitivity (response current value) of a glucose sensor which processed the time of three sorts of above-mentioned beginning of using is shown in drawing 4 by comparison. While keeping it by dryness putting these results together. the microscopic situation on the working pole of this enzyme electrode type chemicals sensor. and the surface of a counter electrode, The state where impressed working potential, it was immersed into 24-hour or more conservation liquid, and stabilization was attained is performing processing which impresses high potential more nearly intentionally than working potential, and is immersed and held in conservation liquid, although deviated in the state it having differed, It became clear that the state of an electrode surface could be restored to the state where original was stable. Change of the electric double layer which originates in the electric charge accumulated on an electrode surface from the state where this high potential was impressed when it changes into the usual working potential, it is carried out promptly, and although a working pole, a reference pole, and the base current that flows through between become fixed, in order to attain stabilization in the state where it deviated electrostatically, as the whole enzyme electrode type chemicals sensor, it turns out that time is required further. Although it depends also on the changing amount of impression potential, it is judged with it being long by this further stabilization that maintenance of less than 1 hour is enough. [0053]

That is, after production, about the enzyme electrode type chemicals sensor currently kept by dryness, when starting to use, it was checked that the stabilization to the original sensor sensitivity of the enzyme electrode type chemicals sensor can be attained in a short time by performing beginning-of-using treating operation according to the first measuring method concerning this invention. After finishing this beginning-of-using treating operation, even if stabilization of sensor sensitivity is made and it does not perform fixed time and a sensitivity calibration, it becomes possible to carry out good measurement of accuracy and reproducibility. [ORSA]

Based on the above result, the functional addition of the conditions of impression potential setting out corresponding to the beginning-of-using treating operation mentioned above and retention time was carried out in soft about the measuring device body 9 for these enzyme electrode type chemicals sensors. It corresponded and a series of beginning-of-using treating operation mentioned above also in hard also added the mechanism which indicates that was completed and the stable measurement of was attained.

With for example, the measuring device body 9 which added the beginning-of-using treating operation function mentioned above

After connecting the sensor of dryness to the measuring instrument body  $\theta$ ,

(i) A sensor installs in the position immersed in conservation liquid (it detects with a reed switch etc.).

(ii) Hold for 5 minutes, without impressing potential.

If potential is impressed in the state where the whole -> organic layer has not fully got wet with conservation liquid, in order to cause film destruction.

- (jii) Hold by 750 mV for 3 hours.
- (iv) Hold by 450 mV for 1 hour.
- (v) It becomes "good" but measuring the indicator of a measuring instrument body part as it is 450 mV.
- \*\* the hard change of the addition of the indicator section of a detector style and a measuring instrument body part, etc. is made with the potential applying timing control [ like ] like software, the reed switch used for it, etc. [0056]

(A 2nd embodiment)

Drawing 5 is a sectional view showing typically an example of chemical sensor composition used